



# Contributing to the ADL Registry

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*Joint ADL Co-Lab*



# Questions We Will Answer

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- What does DoDI 1322.26 require?
- What is the ADL Registry?
- What should I register?
- What metadata is required?
- How do I search the ADL Registry?
- How do I document search results?
- How do I contribute content to the ADL Registry?
- Where do I go for help?



**What does DoDI 1322.26  
require?**





# DoDI 1322.26 Requirements - 1

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- All acquired or developed systems and content packages shall comply with Sharable Content Object Reference Model (SCORM®) (current version)
- All acquired or developed SCORM-compliant content packages shall
  - Include metadata
  - Be registered in the ADL Registry (ADL-R)
  - Be maintained in DoD Components' repositories that are searchable and accessible



# DoDI 1322.26 Requirements - 2

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- As part of a Front-End Analysis (FEA)
  - Search the ADL Registry for existing content that can be
    - Redeployed
    - Rearranged
    - Repurposed
    - Rewritten
  - Document search results





**What is the ADL Registry?**





# ADL Registry Definition

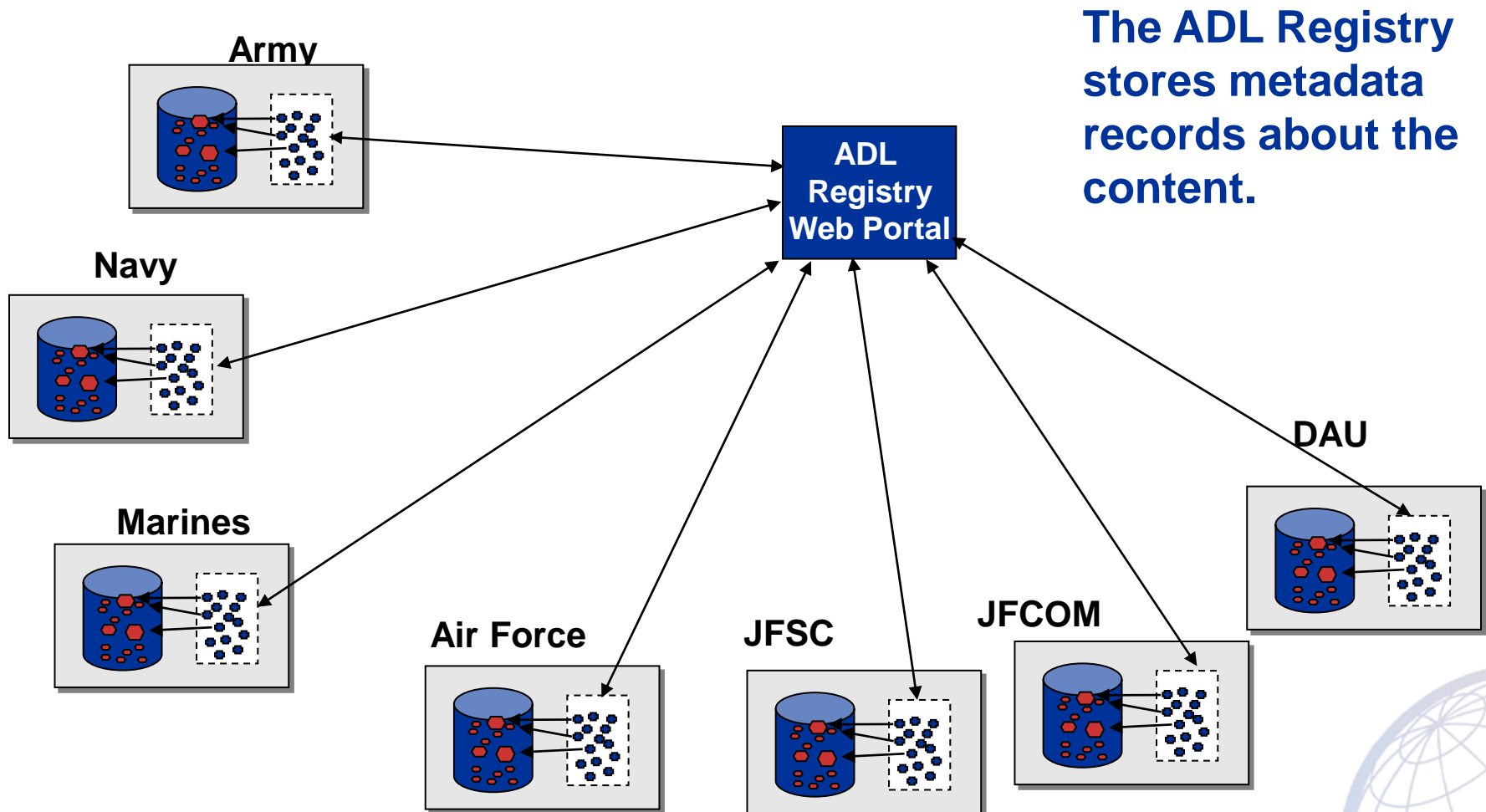
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- A central search point for DoD training content
- The digital equivalent of a library card catalog
  - Contains all of the cards (**registered entries**) that contain a standard set of information (**metadata**) about all of the books (**learning-related content**) in the library (**repository**)



# Repositories and ADL Registry

**Your organization's local repository stores the content.**







**How do I search the  
ADL Registry?**





# ADL Registry Search Page

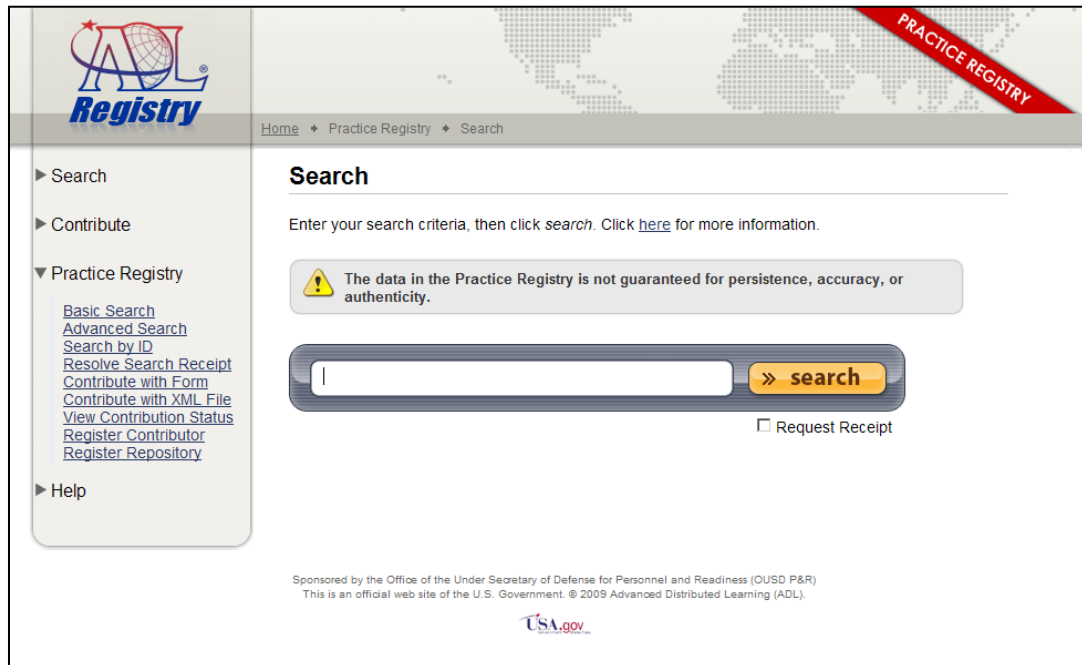
---

- Accessible to everyone
  - Provides search service only on the registered content objects (unlike Google)
  - Uses a pre-determined metadata structure so search results are 100% accurate



# Searching the ADL Registry

- Enter the search query
  - General keyword search
  - Key off a particular metadata field
  - Boolean operators like AND and OR (the default is AND)




The screenshot shows the ADL Registry Search interface. On the left is a navigation menu with links: Search, Contribute, Practice Registry (expanded), Basic Search, Advanced Search, Search by ID, Resolve Search Receipt, Contribute with Form, Contribute with XML File, View Contribution Status, Register Contributor, Register Repository, and Help. The main content area is titled 'Search' and includes a warning: 'The data in the Practice Registry is not guaranteed for persistence, accuracy, or authenticity.' Below this is a search input field with a 'search' button and a 'Request Receipt' checkbox. A red banner in the top right corner reads 'PRACTICE REGISTRY'. The footer contains sponsorship information and the USA.gov logo.

**ADL Registry**

Home ♦ Practice Registry ♦ Search

Search

Enter your search criteria, then click search. Click [here](#) for more information.

 The data in the Practice Registry is not guaranteed for persistence, accuracy, or authenticity.

☐ Request Receipt

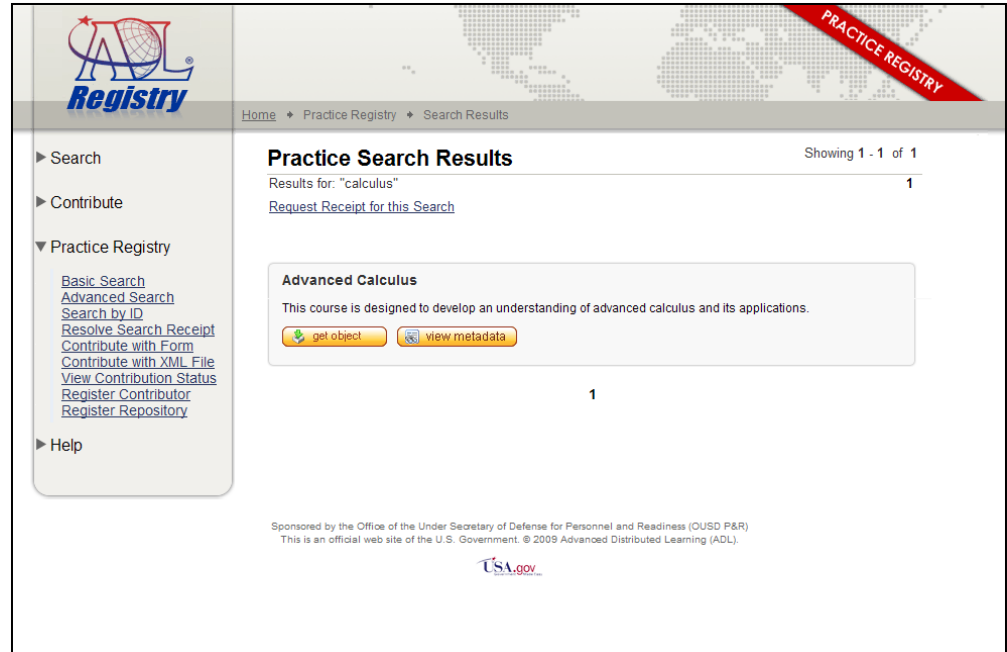
Sponsored by the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R)  
This is an official web site of the U.S. Government. © 2009 Advanced Distributed Learning (ADL).

USA.gov

<http://adlregistry.adlnet.gov/training/search/>

# Search Results Example

- Retrieve the search results
- Each result represents a separate metadata instance
- Several metadata records may describe the same object



The screenshot shows the ADL Registry Search Results page. The header includes the ADL Registry logo and a navigation bar with links to Home, Practice Registry, and Search Results. A red banner in the top right corner reads 'PRACTICE REGISTRY'. The main content area is titled 'Practice Search Results' and shows 'Showing 1 - 1 of 1' results. The search results are for 'calculus' and include a link to 'Request Receipt for this Search'. A search result card for 'Advanced Calculus' is displayed, stating 'This course is designed to develop an understanding of advanced calculus and its applications.' and providing buttons for 'get object' and 'view metadata'. The footer includes a sponsorship notice from the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R) and the USA.gov logo.

# Metadata Record Example

**View Metadata** [download XML file](#)

**Content Information**

Title:	Advanced Calculus
Description:	This course is designed to develop an understanding of advanced calculus and its applications.
Keywords:	line integral partial derivative
Version Number:	1.1
Content Status:	under development
Collection:	DOD

**Contributor Information**

Contributor Name:	ADL Registry Pilot Working Group
Contributor Role:	author
Contributor Date:	2006-05-11

**Restriction Information**

Copyright Restriction:	no
Security Level:	unclassified
Distribution Restriction:	LR

**Technical Information**

Content Type:	asset
Object Contents: (MIME/Types)	text/html
Metadata Schema:	LOMv1.0 ADL-Rv1.0
Conformance:	SCORM 2004

**Identifiers**

Registry ID:	4444/registry
Repository ID:	<a href="#">100.51/10004adlrcctest</a>
Content Object ID:	<a href="#">4444.1/example-insert</a>
Metadata Instance ID:	4444/MDexample-insert1195244585174

**How do I document  
search results?**



**What should I register?**





# All New Content

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- Content packages
  - Courses, aggregations, and Sharable Content Objects (SCOs) that others could redeploy, rearrange, repurpose or rewrite
    - Others are more likely to reuse small pieces of content than larger ones
- Collections of learning objectives
  - Courses
  - Modules
  - Units
  - Other...





# Legacy Content Useful to Others - 1

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- Applicable to or required by multiple services or other organizations within DoD
  - *Combating Trafficking in Persons*
  - *Combat Care for Blast Injuries*
  - *Tactical: Patrolling, Defensive Operations*
- Non-government specific
  - Accounting
  - Leadership
  - Medical
  - Compliance



# Legacy Content Useful to Others - 2

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- Governed by federal, rather than DoD policy
  - Air traffic control
  - Hazardous materials transportation
  - Federal acquisition regulations
- Not weapon-system specific
  - Principles of navigation (flight or naval training)
  - HWMMV maintenance



- Other guidance (in PDF files)
  - Style Guides
    - *Defense Ammunition Center e-Learning Style Guide*
  - Glossaries
    - *ADL Terminology*
  - Reference Manuals
    - *ADL Guidelines for Creating Reusable Content with SCORM 2004*



**What metadata is required?**



- Title

- “Transporting Hazardous Materials”

- Description

- “Provides an introduction to hazardous materials classes/divisions, placarding requirements and safety considerations during transit. Also describes MSDSs and the ERG.”

- Keywords

- “hazmat, hazardous materials classes/divisions, hazmat placards, hazardous materials transportation, MSDS, ERG”



- Version
  - “4.0”
- Status (fixed value set)
  - “under development”





# Author and Technical

---

- Author
  - “Defense Ammunition Center (DAC)  
Directorate for Training  
1 C Tree Road  
McAlester, Oklahoma  
+1-918-420-8813  
admin@dac.army.mil  
<https://www3.dac.army.mil/AS/>”
- Format
  - “HTML” “FlashPlayer”
- SCORM Version
  - “SCORM 2004”



- Copyright
  - “No”
  
- Distribution restrictions
  - “Not for foreign distribution”





- Individual ID

- “William Scott”

- Group ID

- “4444.grp/10031dacgroup2”
    - Always the same for your group
    - Group 1 is assigned to users
    - Group 2 is assigned to managers

```
<submitter>  
  <identifier>adldemo</identifier>  
  <groupId>4444.grp/demogroup2</groupId>  
</submitter>
```

*“adldemo” is an ADL  
Registry User ID, which  
represents the user*

*“4444.grp/demogroup2” is a Handle,  
which represents the user group*

- Repository ID

- “100.50./10017daclms”
    - Always the same for your repository

- Training Content Identifier
  - Handle prefix → “4444.22”
    - Always the same for your organization
  - Handle suffix → “nskdfoipsdf2154sdf5s4d”
    - Unique for each version registered
- Training Content Location
  - “https://ammoschool.com/Id=B85A6E3.zip”
    - A URL where an outside entity can access the training content





# Other Learning Object Metadata (LOM)

- May be added at your discretion
  - Will be indexed for search

***Educational Objective***

***Difficulty***

***Interactivity Level***

***Typical Learning Time***

***and more...***



# Completing Fields

- These fields are **always the same**
    - Group ID
    - Repository ID
    - Handle prefix
    - Metadata Schema
    - MetaMetadata Schema
      - Unclassified
    - Collection
      - DOD
  - These fields can be **automatically generated**
    - Timestamp of Submission
    - *Handle suffix*
- Content developers don't need to focus on these fields!***





**How do I contribute objects  
to the ADL Registry?**



# Register the Repository


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- Complete and submit the Repository Registration form on the ADL Registry Web site
- If the request is approved, the Help Desk will respond with the
  - Repository identifier
  - Repository prefix/namespace
  - Group identifiers





# Repository Registration Form

[Home](#) ♦ [Contribute](#) ♦ [Repository Registration](#)

► Search

▼ Contribute

- [Contribute with Form](#)
- [Contribute with XML File](#)
- [View Contribution Status](#)
- [Register Contributor](#)
- [Register Repository](#)

► Practice Registry

► Help

## Repository Registration

This Repository Registration form applies to DoD Component repositories with identified [Component Proponents](#) and Sponsor Organizations.

### Repository Information

General Information about the repository.

**Repository Title** (common name):

**Brief Description:**

**Location** (URL):

### Repository Sponsor Information

The Repository Sponsor is the organization whose mission it is to establish, operate, and maintain a repository. The Sponsor Representative must be a government employee.

**Sponsor Organization:**

<http://adlregistry.adlnet.gov/register/repository/>



# Register the Contributors

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- Complete and submit the Contributor Registration form on the ADL Registry website
- If the request is approved, the Help Desk will respond with the
  - User identifier
  - Temporary User password







# Contributor Registration Form



Home ♦ Contribute ♦ Contributor Registration

► Search

▼ Contribute

- [Contribute with Form](#)
- [Contribute with XML File](#)
- [View Contribution Status](#)
- [Register Contributor](#)
- [Register Repository](#)

► Practice Registry

► Help

## Contributor Registration

This Contributor Registration form applies to contributors who have registered repositories with the ADL Registry. Click [here](#) for more information.

### Contributor Information

**Name:**

**E-mail Address:**

**Telephone Number:**

### Repository Information

**Repository Name/ID:**

Please provide either your repository identifier, which your Repository Manager should be able to provide, or the full name and service of your repository (e.g., Navy CMAD ILE Repository).

**Repository Manager Name:**

**Repository Manager E-mail Address:**

<http://adlregistry.adlnet.gov/register/contributor/>

- The ADL Registry accepts IEEE Learning Object Metadata (LOM)
- May use all LOM elements (optional)
- Some LOM elements are mandatory for the ADL Registry

```
<lom:general>
  <lom:title>
    <lom:string language="en-US">
      Advanced Calculus
    </lom:string>
  </lom:title>
  <lom:keyword>
    <lom:string language="en-US">
      line integral
    </lom:string>
  </lom:keyword>
  <lom:keyword>
    <lom:string language="en-US">
      partial derivative
    </lom:string>
  </lom:keyword>
  <lom:description>
    <lom:string language="en-US">
      This course is designed to develop
      of advanced calculus and its appl
    </lom:string>
  </lom:description>
</lom:general>
```




# Metadata Authoring Options

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- Use a custom tool in your system
- Create XML in XML editor
- Use ADL Web form
  - Allows contributors to generate and submit registry transactions



# Web Form for Metadata Authoring



Registry

Home ♦ Practice Registry ♦ Contribute Metadata with Online Form

▶ Search

▶ Contribute

▼ Practice Registry

- [Basic Search](#)
- [Advanced Search](#)
- [Search by ID](#)
- [Resolve Search Receipt](#)
- [Contribute with Form](#)
- [Contribute with XML File](#)
- [View Contribution Status](#)
- [Register Contributor](#)
- [Register Repository](#)

▶ Help

PRACTICE REGISTRY

## Contribute Metadata with Form

Use this tool to create and submit an ADL Registry transaction file for contributing or changing digital object metadata by filling out an interactive form. After the file has been created, you can view, download, and submit your transaction. Click [here](#) for more information.

Contributor Information

All fields in this section are required.

User Name:


Password:

E-mail Address:

Group ID:

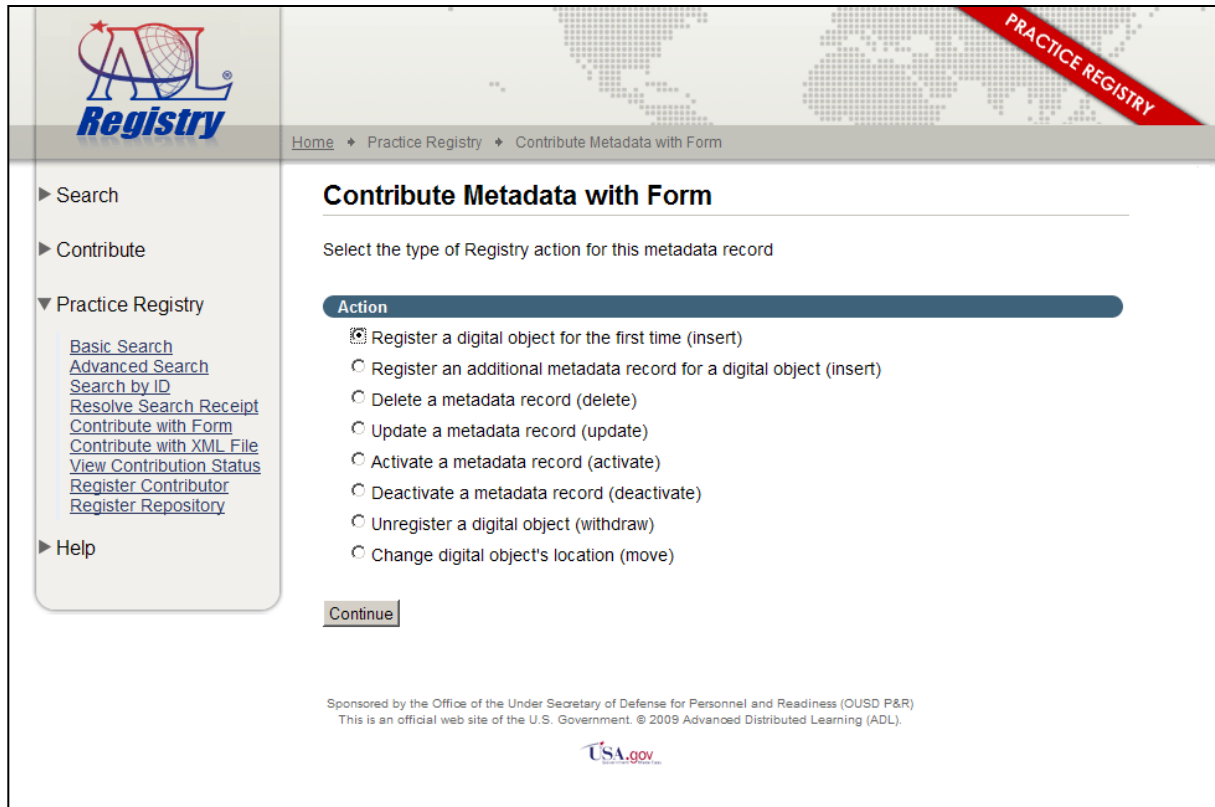
Continue

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<http://adlregistry.adlnet.gov/contribute/tool/identity.jsf?target=practice>

# Web Form: Operation Selection



The screenshot shows the ADL Registry web interface. The top header features the ADL logo and the text 'Registry'. A red banner in the top right corner reads 'PRACTICE REGISTRY'. The breadcrumb trail is 'Home > Practice Registry > Contribute Metadata with Form'. The left sidebar contains a menu with 'Search', 'Contribute', 'Practice Registry' (expanded), and 'Help'. Under 'Practice Registry', there are links for 'Basic Search', 'Advanced Search', 'Search by ID', 'Resolve Search Receipt', 'Contribute with Form', 'Contribute with XML File', 'View Contribution Status', 'Register Contributor', and 'Register Repository'. The main content area is titled 'Contribute Metadata with Form' and instructs the user to 'Select the type of Registry action for this metadata record'. Below this is a section labeled 'Action' with a list of radio button options: 'Register a digital object for the first time (insert)', 'Register an additional metadata record for a digital object (insert)', 'Delete a metadata record (delete)', 'Update a metadata record (update)', 'Activate a metadata record (activate)', 'Deactivate a metadata record (deactivate)', 'Unregister a digital object (withdraw)', and 'Change digital object's location (move)'. A 'Continue' button is located at the bottom of the form. The footer contains sponsorship information from the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R) and the USA.gov logo.

**Registry**

Home > Practice Registry > Contribute Metadata with Form

**Contribute Metadata with Form**

Select the type of Registry action for this metadata record

**Action**

- ☒ Register a digital object for the first time (insert)
- ☐ Register an additional metadata record for a digital object (insert)
- ☐ Delete a metadata record (delete)
- ☐ Update a metadata record (update)
- ☐ Activate a metadata record (activate)
- ☐ Deactivate a metadata record (deactivate)
- ☐ Unregister a digital object (withdraw)
- ☐ Change digital object's location (move)

[Continue](#)


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# Web Form: Envelope Information

**Transaction Information**

All fields in this section are required.


**Object Identifier:** 


**Repository Identifier:** 


[additional information](#)


**Object Location Information**


This section allows you to provide one or more locations for your digital object. Each location provides a different way to experience the object. At least one location must be provided.


**Object:** 

**Advertisement:** 

**Runtime:** 

**Contact:** 

**Extended Metadata:** 

**Repository:** 

[Continue & Contribute](#)

# Web Form: Metadata

## General Digital Object Information

This section includes basic descriptive information about your digital object. All fields in this section are required. You must provide at least one descriptive keyword for your digital object by entering a keyword into the field and clicking *Add*.

**Title:**

**Keywords:**

Add

Remove

**Description:**


## Digital Object Life Cycle Information

This section includes information about the history and current status of your digital object. All fields in this section are required.

**Version:**

**Status Value:**

# Web Form: Final Steps



**Registry**

Home ♦ Practice Registry ♦ Contribute Metadata with Form

▶ Search

▶ Contribute


▼ Practice Registry

- [Basic Search](#)
- [Advanced Search](#)
- [Search by ID](#)
- [Resolve Search Receipt](#)
- [Contribute with Form](#)
- [Contribute with XML File](#)
- [View Contribution Status](#)
- [Register Contributor](#)
- [Register Repository](#)

▶ Help


## Contribute Metadata with Form

Please choose an action below to continue your transaction. Please note that if you would like to save a copy of your transaction file, you must do so before transmitting it to the ADL Registry.

 Your ADL Registry Transaction has not yet been completed.

- [View Transaction File](#)
- [Download Transaction File](#)
- [Send Transaction File to ADL Registry](#)
- [Discard Session and Start Over](#)

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# Create the REG-T

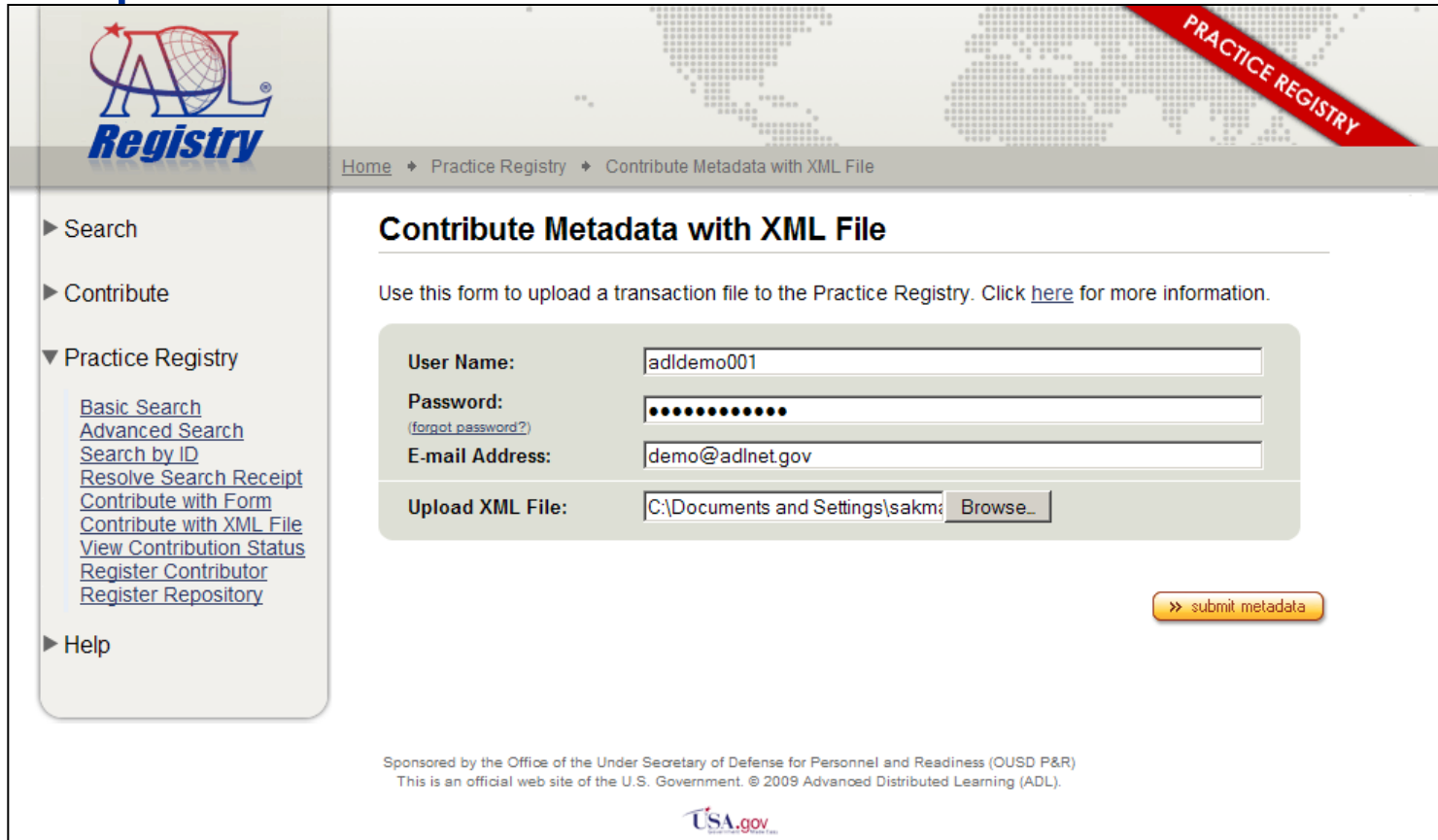
---

- A REG-T is an XML file that contain:
  - Metadata that describes the content
  - A transactional envelope that holds contextual information that the ADL Registry requires to operate
    - Registry Version
    - User and Group identifiers
    - Object identifier
    - Object locations
  - An operation type
    - Registrations have an “insert” operation type.
    - Other operations include “update” and “delete”



# Submit the REG-T

- Launch the ADL Registry functional Web Site
- Complete submission form



The screenshot shows the ADL Registry website interface. On the left is a navigation menu with links for Search, Contribute, Practice Registry (expanded), and Help. The Practice Registry section includes links for Basic Search, Advanced Search, Search by ID, Resolve Search Receipt, Contribute with Form, Contribute with XML File, View Contribution Status, Register Contributor, and Register Repository. The main content area is titled 'Contribute Metadata with XML File' and includes a breadcrumb trail: Home > Practice Registry > Contribute Metadata with XML File. A red banner in the top right corner reads 'PRACTICE REGISTRY'. The form contains fields for User Name (adldemo001), Password (masked with dots), E-mail Address (demo@adlnet.gov), and an Upload XML File section with a file path (C:\Documents and Settings\sakm...) and a 'Browse...' button. A 'submit metadata' button is located at the bottom right of the form. At the bottom of the page, there is a footer with sponsorship information from the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R) and a USA.gov logo.

**ADL Registry**

Home > Practice Registry > Contribute Metadata with XML File

### Contribute Metadata with XML File

Use this form to upload a transaction file to the Practice Registry. Click [here](#) for more information.

User Name:

Password:   
(forgot password?)

E-mail Address:

Upload XML File:

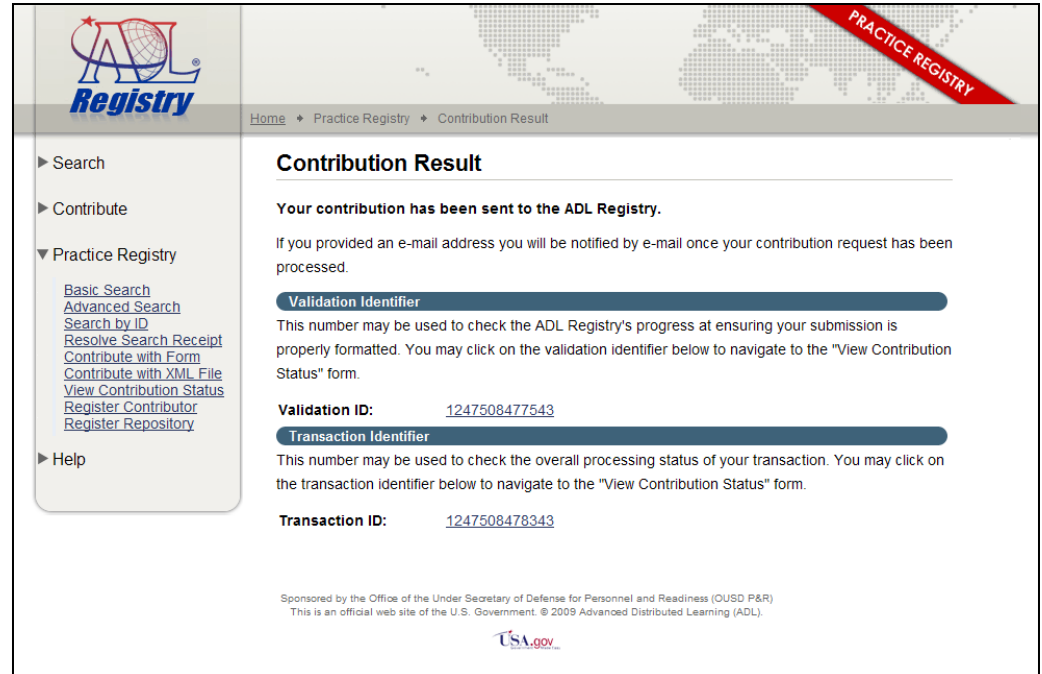
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This is an official web site of the U.S. Government. © 2009 Advanced Distributed Learning (ADL).

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<http://adlregistry.adlnet.gov/training/contribute/advanced.jsp>

# Obtain the Identifier

- Processing may take time
  - Authentication
  - XML validation
  - XML processing
  - Registry processing

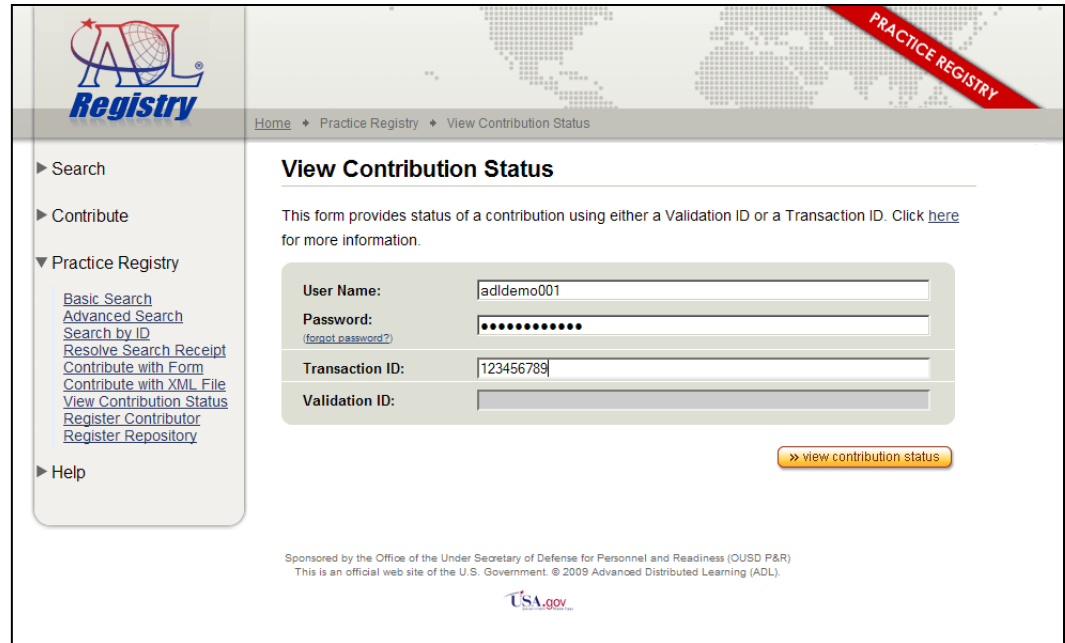


The screenshot shows the ADL Registry website. The header includes the ADL Registry logo and a navigation bar with links: Home, Practice Registry, and Contribution Result. A red banner in the top right corner reads "PRACTICE REGISTRY". The left sidebar contains a menu with links: Search, Contribute, Practice Registry (expanded), Basic Search, Advanced Search, Search by ID, Resolve Search Receipt, Contribute with Form, Contribute with XML File, View Contribution Status, Register Contributor, Register Repository, and Help. The main content area is titled "Contribution Result" and contains the following text: "Your contribution has been sent to the ADL Registry. If you provided an e-mail address you will be notified by e-mail once your contribution request has been processed." Below this, there are two sections: "Validation Identifier" and "Transaction Identifier". The "Validation Identifier" section states: "This number may be used to check the ADL Registry's progress at ensuring your submission is properly formatted. You may click on the validation identifier below to navigate to the 'View Contribution Status' form." The "Validation ID:" is 1247508477543. The "Transaction Identifier" section states: "This number may be used to check the overall processing status of your transaction. You may click on the transaction identifier below to navigate to the 'View Contribution Status' form." The "Transaction ID:" is 1247508478343. At the bottom, there is a footer with text: "Sponsored by the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R). This is an official web site of the U.S. Government. © 2009 Advanced Distributed Learning (ADL)." and the USA.gov logo.

- Validation Identifier
  - Checks the processing status while the submission is still being processed
- Transaction Identifier
  - Checks the status of the submission after it has been completely processed


# Check the Status

- Use the Transaction Identifier to check the processing status
- The processing status can be
  - Processing
  - Completed
  - Failure
- If Processing, try again later
- If Failure, a log will provide follow-up information



The screenshot shows the ADL Registry website. The header includes the ADL Registry logo and a navigation bar with links: Home, Practice Registry, and View Contribution Status. A red banner in the top right corner reads 'PRACTICE REGISTRY'. The left sidebar contains a menu with links: Search, Contribute, Practice Registry (expanded), Basic Search, Advanced Search, Search by ID, Resolve Search Receipt, Contribute with Form, Contribute with XML File, View Contribution Status, Register Contributor, Register Repository, and Help. The main content area is titled 'View Contribution Status' and contains a form with fields for User Name (adldemo001), Password (masked with dots), Transaction ID (123456789), and Validation ID. A button labeled '>> view contribution status' is at the bottom right of the form. Below the form, a footer note states: 'Sponsored by the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R). This is an official web site of the U.S. Government. © 2009 Advanced Distributed Learning (ADL). USA.gov'.

# Contribution Status Result



Registry

Home ♦ Practice Registry ♦ Contribution Status Result

► Search

► Contribute

▼ Practice Registry

- [Basic Search](#)
- [Advanced Search](#)
- [Search by ID](#)
- [Resolve Search Receipt](#)
- [Contribute with Form](#)
- [Contribute with XML File](#)
- [View Contribution Status](#)
- [Register Contributor](#)
- [Register Repository](#)

► Help

## Contribution Status Result

**Transaction Status**

The information below provides an overview of the ADL Registry's progress in validating your submission.

<b>Transaction ID:</b>	1247508478343
<b>User Name:</b>	adldemo001
<b>Group:</b>	4444.grp/demoa002
<b>Summary:</b>	1 of 1 transaction operations have been processed successfully.
<b>Object Identifier:</b>	4444.00/demo1984
<b>Metadata Instance Identifier:</b>	4444/MDdemo19841247508478678
<b>Requested Operation:</b>	insert
<b>Status:</b>	success



# ADL Resources



- Vendor-neutral Evaluation Environment
  - Hosted at ADL Co-Lab Hub in Alexandria, VA
  - Expert support to help resolve interoperability concerns
  - Unbiased facilitation for dispute resolution
- Will host a variety of LMS, LCMS, and authoring tools
  - Support test and evaluation of content across platforms
  - Showcase exemplar content and tools
  - Enable rapid troubleshooting to quickly identify problem areas



# Learning Opportunities – 1

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- Webinars: 1-hour sessions each week
  - Current topics
    - SCORM 2004 4<sup>th</sup> Edition Overview
    - Creating Reusable Content with SCORM 2004
    - Sequencing SCORM 2004 Content (2-part series)
    - Contributing to the ADL Registry Version 1.7
    - Federated Registry Architectures
    - Choosing Authoring Tools
    - Visual Design Principles for Reusable Learning Content
  - Custom sessions may be available
  - For details, visit [www.ADLNet.gov](http://www.ADLNet.gov)

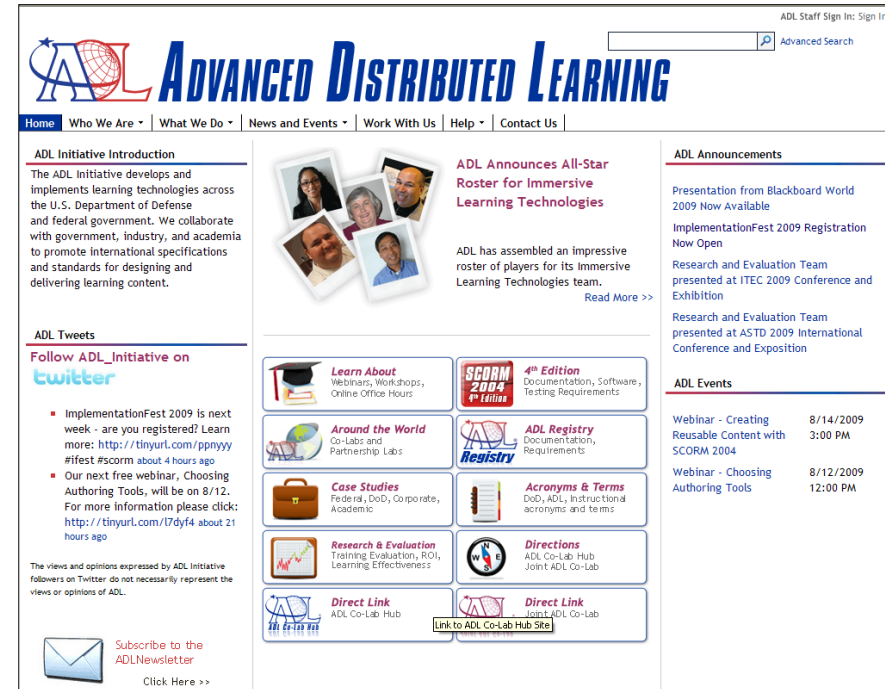


# Learning Opportunities – 2

- Online Office Hours
  - Every Thursday from 1:00 - 3:00 PM Eastern
  - Instructional Systems Designer (ISD) and technical expert support
  - For details, visit [www.ADLNet.gov](http://www.ADLNet.gov)



- Bookmark ADLNet.gov
  - Topic sections with new feature stories each month
  - More resources for designers and developers
- *ADL Initiative Insights Newsletter (monthly)*
  - Subscribe at [www.ADLNet.gov](http://www.ADLNet.gov)
- Follow ADL on  @ADL\_Initiative
- Join the Advanced Distributed Learning group on 



The screenshot shows the ADLNet.gov homepage. At the top is the ADL logo and the text 'ADVANCED DISTRIBUTED LEARNING'. Below this is a navigation bar with links: Home, Who We Are, What We Do, News and Events, Work With Us, Help, and Contact Us. The main content area is divided into several sections:

- ADL Initiative Introduction:** A paragraph about the ADL Initiative's mission to develop and implement learning technologies across the U.S. Department of Defense, government, industry, and academia.
- ADL Tweets:** A section titled 'Follow ADL\_Initiative on twitter' with a list of tweets. The first tweet mentions 'ImplementationFest 2009' and the second mentions 'Our next free webinar, Choosing Authoring Tools, will be on 8/12'.
- ADL Announces All-Star Roster for Immersive Learning Technologies:** A section with a photo of five people and text stating 'ADL has assembled an impressive roster of players for its Immersive Learning Technologies team.' with a 'Read More >>' link.
- ADL Announcements:** A section with two announcements: 'Presentation from Blackboard World 2009 Now Available' and 'ImplementationFest 2009 Registration Now Open'.
- ADL Events:** A table listing upcoming events:
 

Event	Date	Time
Webinar - Creating Reusable Content with SCORM 2004	8/14/2009	3:00 PM
Webinar - Choosing Authoring Tools	8/12/2009	12:00 PM
- ADL Registry:** A section with a link to 'ADL Registry'.
- ADL Direct Link:** A section with a link to 'ADL Co-Lab Hub'.



# Questions or Comments?

**Damon Regan**

[damon.regan.ctr@adlnet.gov](mailto:damon.regan.ctr@adlnet.gov)